

# ● PRINTER RUSH ●

(PTO ASSISTANCE)

Application : <u>10/650137</u>	Examiner : <u>Nutter</u>	GAU : <u>1711</u>
From: <u>NRB</u>	Location: <u>IDC</u> FMF FDC	Date: <u>04/14/05</u>
Tracking #: <u>06062402</u>		Week Date: <u>01/03/05</u>

DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449	_____	<input checked="" type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS	_____	<input type="checkbox"/> Foreign Priority
<input type="checkbox"/> CLM	_____	<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW	_____	<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW	_____	<input type="checkbox"/> Other
<input type="checkbox"/> DRW	_____	
<input type="checkbox"/> OATH	_____	
<input type="checkbox"/> 312	_____	
<input type="checkbox"/> SPEC	_____	

**[RUSH] MESSAGE:**

① Application No. 09/831,688 appears to be notional stage of PCT application No. PCT/US98/24300. please provide PCT application number and filing date in continuing data paragraph per 37 CFR 1.78(a)(2).

② Also, please update bib sheet to show PCT = cont. data. *Thank you*

**[XRUSH] RESPONSE:**

① + ② corrected

*see attachment*

**INITIALS:** *VP*

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.  
REV 10/04

*10 f4*

C-463 DIV 4

PATENT APPLICATION

**WATER COMPATIBLE ENERGY CURABLE COMPOSITIONS CONTAINING  
MALEIMIDE DERIVATIVES****BACKGROUND OF INVENTION**

This application is a Divisional of United States Patent Application No. 09/831,688, entitled "Water Compatible Energy Curable Compositions Containing Maleimide Derivatives", <sup>filed Jul 23, 2001 now US Pat NO 371 of PCT/US 98/24300 filed Nov. 14, 1998</sup> ~~now pending.~~ which is a

**Field of the Invention**

The present invention relates to active water compatible energy curable compositions containing a maleimide derivative, useful for preparing various coatings, printing inks, surface finishes, moldings, laminated plates, adhesives, and binders. More specifically, the present invention relates to active water compatible energy curable compositions, which can be cured in the absence of a photoinitiator with an irradiation source of practical intensity and energy value.

**Description of Related Art**

An active energy curable composition polymerized under irradiation of active energy such as thermal energy, ultraviolet light, visible light, and the like, has an advantage of being rapidly cured. Active energy curable compositions are widely used as paints, inks, adhesives, coatings, and the like. However, conventional ultraviolet active energy curable compositions cannot initiate polymerization alone upon irradiation with an energy source; it is therefore necessary to use a photoinitiator. When photoinitiators are used in large quantities, curing progresses rapidly, which encourages the use of large quantities of photoinitiator.

Photoinitiator compounds having an aromatic ring are used in general because they effectively absorb ultraviolet light. However, these compounds cause problems such as the yellowing of the cured materials



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Bib Data Sheet

CONFIRMATION NO. 6317

SERIAL NUMBER	FILING OR 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/650,137	08/27/2003 RULE	522	1711	C-463 DIV IV

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## \*\* CONTINUING DATA \*\*\*\*\*

This application is a DIV of 09/831,688 07/23/2001 PAT 6,706,777  
which is a 371 of PCT/US98/24300 11/14/1998

## \*\* FOREIGN APPLICATIONS \*\*\*\*\*

JAPAN 10-079678 03/26/1998  
JAPAN 10-079679 03/26/1998  
JAPAN 10-093215 04/06/1998  
JAPAN 10-107671 04/17/1998

## IF REQUIRED, FOREIGN FILING LICENSE GRANTED

\*\* 12/10/2003

Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no	STATE OR COUNTRY NJ	SHEETS DRAWING 2	TOTAL CLAIMS 11	INDEPENDENT CLAIMS 1
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged	Examiner's Signature	Initials		

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## TITLE

WATER COMPATIBLE ENERGY CURABLE COMPOSITIONS CONTAINING MALEIMIDE DERIVATIVES

FILING FEE RECEIVED 880	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees
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☐ Credit